

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) Apparatus for a radio device operable ~~in a radio communication system~~ at least to receive a receive signal, the receive signal formed of a desired component transmitted to the radio device upon a desired receive band of first frequencies and at least potentially a non-desired component transmitted to the radio device upon an other-than-desired receive band of second frequencies, the second frequencies dissimilar to the first frequencies, said apparatus for facilitating recovery of the desired component of the receive signal, said apparatus comprising:

a non-desired component indicia detector ~~adapted~~ coupled to receive indications of the receive signal that contains the desired component and at least potentially the non-desired component, said non-desired component indicia detector configured to detect ~~for detecting~~ an indicia of the non-desired component transmitted upon the other-than-desired receive band of the second frequencies of the receive signal, irrespective of power levels of the non-desired component, and for forming a detection signal indicative of the non-desired component of the receive signal, free of indications of the desired component transmitted upon the desired receive band of the first frequencies;

a receive signal sampler also ~~coupled~~ adapted to receive the indications of the receive signal and ~~coupled~~ adapted to receive the detection signal formed by said non-desired component indicia detector responsive to detection of the indications of the indicia of the non-desired component of the receive signal detected by said non-desired component indicia detector, said receive signal sampler ~~for sampling~~ configured to sample the receive signal at sampling times selected responsive to the indicia detected by said non-desired component indicia detector and to form a sampled signal, the sampled signal formed of signal samples, the signal samples free of

the non-desired component transmitted upon the other-than-desired receive band of the second frequencies through appropriate selection of sampling times at which the indications of the receive signal are sampled, the receive signal once sampled, representative of the desired component transmitted upon the desired frequency band of the first frequencies of the receive signal.

2. (Currently amended) The apparatus of claim 1 wherein the non-desired component of the receive signal exhibits a characteristic frequency within the second frequencies of the other-than-desired receive band, represented by a waveform having power-level zero-crossings, and wherein the indicia detected by said non-desired component indicia detector comprises indications of occurrences of the zero-crossings of the non-desired component of the zero-crossings.

3. (Original) The apparatus of claim 2 wherein said non-desired component indicia detector comprises a zero-crossing detector, said zero-crossing detector for detecting times at which the non-desired component of the receive signal crosses a zero power level and for forming signal crossing indications responsive thereto.

4. (Original) The apparatus of claim 3 further comprising a filter element positioned in-line with said zero-crossing detector, said filter element for forming a filtered signal, the filtered signal forming the indications of the receive signal to which said zero-crossing detector is coupled to receive.

5. (Original) The apparatus of claim 4 further comprising a digitizer positioned in-line with said filter element and coupled to receive representations of the receive signal, said digitizer for digitizing the representations of the receive signal, digitized representations formed therefrom applied to said filter element.

6. (Original) The apparatus of claim 5 wherein the indications of the receive signal of which said receive signal sampler is coupled to receive comprise the digitized representations of the receive signal.

7. (Original) The apparatus of claim 6 further comprising a delay element positioned in-line between said digitizer and said receive signal sampler, said delay element for delaying application of the digitized representation of the receive signal to said receive signal sampler for a selected time period.

8. (Original) The apparatus of claim 7 wherein the selected time period during which said delay element delays the digitized representation of the receive signal substantially corresponds to a time period required by said filter element to form the filtered signal.

9. (Original) The apparatus of claim 5 further comprising a clock signal generator coupled to said digitizer, said clock signal generator for generating a clock signal of a clock rate responsive to which said digitizer digitizes the representation of the receive signal.

10. (Original) The apparatus of claim 9 wherein the clock rate of the clock signal generated by said clock signal generator is greater than the characteristic frequency of the non-desired component of the receive signal.

11. (Original) The apparatus of claim 1 wherein the desired component of the receive signal comprises a transmit signal intended to be transmitted to the radio device, wherein the non-desired component comprises an adjacent-channel identifying signal and wherein the receive signal, once sampled by said receive signal sampler, is formed of sampled portions of the transmit signal.

12. (Original) The apparatus of claim 11 wherein the radio communication system comprises CDMA (Code-Division, Multiple-Access) cellular communication system, wherein the desired receive band comprises a CDMA receive band allocated to the CDMA cellular communication system for communication thereon of code-division multiplexed signals, and wherein the receive signal, once sampled by said receive signal sampler, is representative of a code-division multiplexed signal transmitted to the radio device.

13. (Original) The apparatus of claim 12 wherein the radio device comprises a cellular mobile terminal having a transmit portion and a receive portion, and wherein said non-desired component indicia detector and said receive signal sampler comprise portions of the receive portion of the cellular mobile terminal.

14. (Currently amended) A method for communicating by way of a radio device operable ~~in a radio communication system~~ at least to receive a receive signal, the receive signal formed of a desired component transmitted to the radio device upon a desired receive band of first frequencies and at least potentially a non-desired component transmitted to the radio device upon an other-than-desired receive band of second frequencies, the second frequencies dissimilar to the first frequencies, said method for facilitating recovery of the desired component of the receive signal, said method comprising the operations of:

receiving at the radio device the receive signal that contains both the desired component transmitted upon the desired receive band of the first frequencies and at least potentially the non-desired component transmitted upon the other-than-desired receive band of the second frequencies;

detecting at the radio device an indicia of the non-desired component of the receive signal received at the radio device, ~~irrespective of power levels of the non-desired component~~ the indicia free of indications of the desired component of the receive signal transmitted upon the desired frequency band of the first frequencies;

sampling the receive signal at sampling times responsive to the indicia detected during said operation of detecting, the sampling times selected to correspond to times at which the non-desired component of the receive signal is of zero power level magnitudes; and

forming a sampled signal responsive to sampling performed during said operation of sampling, the sampled signal representative of the desired component of the receive signal and free of the non-desired component.

15. (Original) The method of claim 14 wherein the indicia of the non-desired component of the receive signal comprises indications of occurrences of power-level zero-crossings of the non-desired component of the receive signal.

16. (Previously presented) The method of claim 15 comprising the additional operation prior to the operation of detecting, of filtering representations of the receive signal received at the radio device, and wherein said operation of detecting is performed upon the representations of the receive signal subsequent to filtering thereof during said operation of filtering.

17. (Previously presented) The method of claim 16 wherein the receive signal is sampled during the operation of sampling at times corresponding to occurrences of power-level zero crossings detected during said operation of detecting.

18. (Previously presented) The method of claim 17 comprising the additional operation, prior to said operation of filtering, of digitizing the receive signal to form a digitized representation thereof.

19. (Previously presented) The method of claim 18 wherein the receive signal digitized during the operation of digitizing is digitized at a rate at least as great as a characteristic frequency exhibited by the non-desired component of the receive signal.

20. (Currently amended) Apparatus for a radio device operable in a radio communication system at least to receive a receive signal, the receive signal formed of a desired component transmitted to the radio device upon a desired receive band of first frequencies and at least potentially a non-desired component transmitted to the radio device upon an other-than-desired receive band of second frequencies, the second frequencies dissimilar to the first frequencies, said apparatus comprising:

a non-desired component indicia detector coupled to receive indications of the receive signal that contains the desired component and at least potentially the non-desired component, said non-desired component indicia detector for detecting an indicia of the non-desired component transmitted upon the other-than-desired receive band of the second frequencies of the receive signal, irrespective of power levels of the non-desired component and for forming a detection signal indicative of the non-desired component, free of indications of the desired component transmitted upon the desired receive band of the first frequencies;

a receive signal sampler also coupled to receive indications of the receive signal and coupled to receive the detection signal formed by said non-desired component indicia detector responsive to detection of the indications of the indicia of the non-desired component of the receive signal detected by said non-desired component indicia detector, said receive signal sampler for sampling the receive signal at sampling times responsive to the indicia detected by said non-desired component indicia detector and to form a sampled signal, the sampled signal formed of signal samples, the signal samples free of the non-desired component through appropriate selection of sampling times at which the indications of the receive signal are sampled, the receive signal once sampled, representative of the desired component of the receive signal.